

Fully Leveraging HIE

Maryland Health Disparities and Public Health

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Russell J. Davis, DPA, MAPT, President Summit Health Information Institute for Research Education, Inc. 202-371-0277, perot@shireinc.org

Camilla Hull Brown, Principal Strategies for Tomorrow, Inc. 317-257-7680, cbrown@sftvision.com



Strategies for Tomorrow

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Topics

- What is Health Information Exchange?
- Why it is important
- What it looks like
- How it changes your work
- National trends
- Opportunities for physicians
- Possible Health Disparities and HIE Strategies

Focus on the Point of Care Physician-Patient Relationship



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Assumptions for Today

- Health Information Technology (HIT)
 - The use of electronic information tools such as electronic charts, electronic prescribing, electronic ordering, clinical messaging, decision support, comparative analysis, etc. to improve quality and effectiveness of care.
- Health Information Exchange (HIE)
 - Two or more organizations that exchange data within and across naturally occurring medical referral regions.
- HIE and RHIO are interchangeable
- We are speaking mostly from the provider/patient viewpoint today

A Healthcare Vision:

Eliminate Health Disparities In Maryland

Goal

 Patients have access to affordable, cost-effective, quality care at the "Point of Care"

Healthcare IT contributes to this goal by:

- Cost effectively providing clinicians and patients with access to relevant patient information (regardless of where the patient has been seen and where the physician is located)
- Enabling the physician-patient relationship to thrive



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The Reality Today

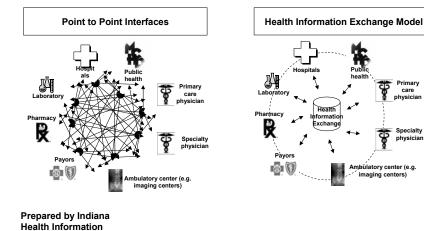
THE HIT and HIE PROBLEM

- Physicians drowning in paper
- Physicians/hospitals in information silos
- If data exchange exists, too many expensive interfaces

•THE RESULT

 Clinical decisions made without all the information – duplicate testing, errors, safety problems, inefficient care

HIE Opportunity: Reduce Integration costs



Electronic Info Physicians Ask For

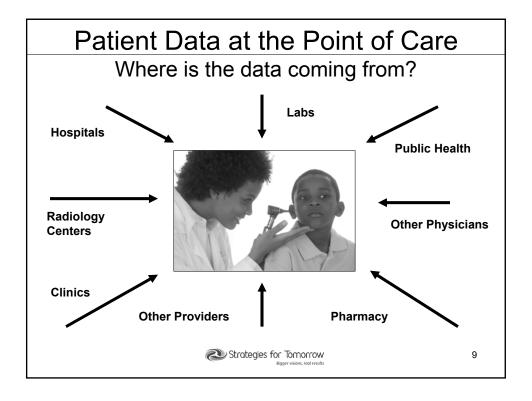
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- Delivery of lab and radiology results
- Delivery of hospital reports
- Referrals between physicians
- Inquiry into patient info from other orgs
 - Medications, allergies, problem lists
 - Diagnoses, test results
 - ER docs, others

Exchange

- Electronic prescribing, esp. prescription refills
- Registries immunization, cancer, asthma, etc.
- Automatic data feeds into their EMRs
- Public health reportable conditions

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Can Healthcare Technology Improve Care?

- Physician access to patient-centric electronic information results in:
 - Improved diagnosis and treatment
 - Much more e-documentation/Fewer errors
 - Easier communication between patient and clinician
 - Improved coordination with other stakeholders
 - Reduced cost of care, enhance continuity of care
 - Maximizes benefits of other electronic applications electronic prescribing, electronic ordering
 - Eliminate clinical decisions made without all the information – duplicate testing, errors, safety problems, inefficient care etc.

Low Participation in Clinical Trials Contributes to Health Disparities?

- Clinical trials are crucial for the development of effective prevention, diagnostic and treatment methods for cancer and other diseases.
- While participation in cancer clinical trials is generally low overall (around three percent for adults), minorities and underserved communities, especially African Americans and those living in rural areas, are particularly under-represented.

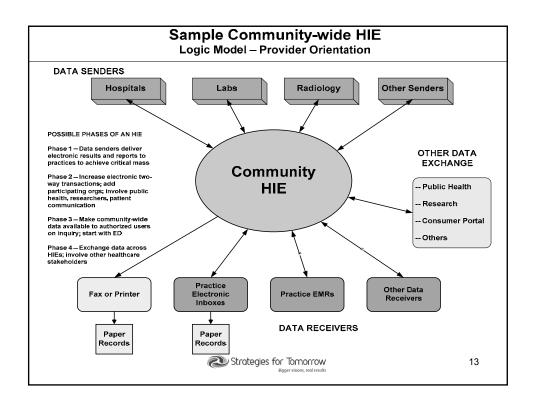
National Cancer Institute - Benchmarks - September 2006

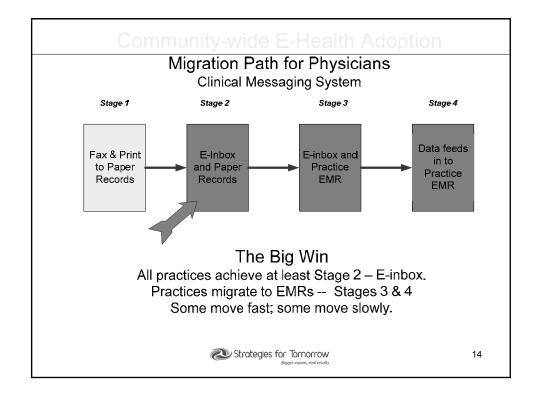


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Growth in HIE Projects -- 2006







Possible HIE Roadmap

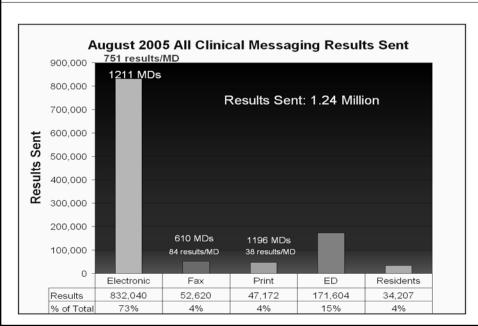
Phase 1	Clinical Messaging data exchange	Data senders deliver results to physician e-inbox or EMR; cross referrals
Phase 2	Expanded data exchange	More participants & transactions; add public health, consumer communication, research
Phase 3	Community- wide inquiry	Access to data from multiple providers by authorized users – attending physicians, ED; can do disease mgmnt
Phase 4	Data across HIEs	Exchange data with neighboring HIEs – ED; transient patients

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Bigger visions, real results

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Health Bridge Physician Volume



Physicians are Key to Disparities: Help Them Become Electronic

- Solo practitioners and small physicians groups represent well over 75% of all practicing physicians
- Offer no or low-cost solutions to help small practices become electronic (e.g. community-wide clinical messaging to send data to physician e-inbox or EMR)
- Focus on easy to use, high value applications (e.g. results delivery, cross-referrals, electronic refills)
- Provide help with workflow to achieve cost savings
- Help physicians generate revenue through clinical trials
- Physician leadership mobilize entire physician community, not just a few techies
- Work jointly with practice administrators
- Get many practices on board fast to leverage benefits



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Physician Tools to Address Disparities: Imbed Key Tools in E-inbox or EMR

- Get all data senders to feed data to physician e-inbox or EMR via clinical messaging system (hospitals, labs, radiology, etc.)
- Integrate evidence-based standards of care into EMR templates -- protocols, alerts, reminders
- Public health send relevant alerts and reminders to physician EMR or e-inbox
- Public health link electronic registries to EMRor e-inbox (e.g., immunizations)
- Pilot a specific chronic disease (diabetes, stroke) using physician/patient centric electronic tools and access to information to reduce burden of disease. (Show how technology "moves the mark")



Reduce Access Barriers: Fiscal, Physical, Cultural, Linguistic, Transportation

- Establish HIEs in areas with greatest disparities
- Hospitals share data with ERs/community centers
- Provide no or low cost solutions to help all physicians use simple e-tools (e.g. clinical messaging to get to critical mass fast)
- Treat patients remotely with secure e-mail, telemedicine, or medical devices (e.g. disabled, home care, rural locations)
- Imbed cultural and linguistic competency into the electronic systems (international banking does it)
- Feed electronic data directly into Practice EMRs



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Improve Data Analysis Around Disparities: Data By Racial and Ethnic Minority

- Expand clinical trials by patient and front-line provider
- Set up data feed from HIE to Public Health to collect all relevant de-identified data for analysis
- Collect key demographic info at least once
- Use record locater to match patient information (helps match patient irrespective of location/name changes)
- Move all data systems toward emerging national standards for seamless data exchange (National Health Information Network, Public Health Information Network, etc.)

Local Public Health Departments: Participate in HIEs

- Realize that HIEs want public health at the table!
- Encourage HIEs to implement PH priorities
- Participate in clinical messaging just like practices
- Add electronic links to physician e-inbox for reportable diseases and alerts
- Use e-data to speed up collection and analysis of data for surveillance (e.g. early warning of infectious disease)
- Think local-statewide simultaneously (Data flows in all directions community HIE, local health department, state health department)



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Link Disparities and HIE Strategies: State-wide Collaborations

- Engage PH and disparities stakeholders in community and state HIE planning.
- Establish HIEs in all communities with greatest health disparities.
- Establish HIEs among safety net providers
- Leverage public health's role as neutral facilitator of multi-stakeholder HIEs

Leverage New Opportunities for Funding

- Alert: This topic has high interest!
- Energize stakeholders with vision and strategy based on MD 2006 Disparities Plan
- Leverage more funding sources (e.g., health disparities and HIE funders)
- Build the business case for each stakeholder
- Target funders to specific parts of plan that fit their missions



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Maryland Disparities & HIE Proposal

- Establish and convene a Disparities and Healthcare Information Exchange Task Force in collaboration with the Office of Minority Health.
 - Support the Coalition for Disparities and HIE (DAHIE)
 - Focus on communities with high disparities
 - Develop strategies based on the Office of Minority Health Plan (e.g. minority clinical trials, participation in HIEs, no or low cost electronic solutions for physicians)
 - Educate key stakeholders across the state
 - Establish a web-site on Disparities and HIE to feed the discussions
 - Build the business case for stakeholders
 - Obtain multi-source funding for initiatives



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